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1

FIGURE 1C

Comparison of human (HUM) and mouse (MUS) staufen sequences

			→ RBD1	
HUM	MKLGKKPMYKPVDPYSRMQSTYNYNMRGGAYPPRYFYFPFVPPLLYQVELSVGGQQFNGK	60		
			
MUS	MYKPVDPHSRMQSTYSYGMRGAYPPRYFYFPFVPPLLYQVELSVGGQQFNGK			
	RBD1←		→ RBD2	
HUM	GKTRQAAKHDAAKALRILQNEPLPERLEVNGRESEEEENLNKSEISQVFEIALKRNLFPVN	120		
	::			
MUS	GKMRPPVKHDAPARALRTLQSEPLPERLEVNGREAEEENLNKSEISQVFEIALKRNLFPVN			
			RBD2←	
HUM	FEVARESGPPHMKNFVTKVSVGEFVGE GEGKSKKISKKNAAIAVLEELKKLPPLPAVERV	180		
			
MUS	FEVARESGPPHMKNFVTRVSVGEFVGE GEGKSKKISKKNAAIAVLEQLRRLPPLPAVERV			
			→ RBD3	
HUM	KPRIKKKTKPIVKPQTSPEYGGGINPISRLAQIQQAKKEKEPEYTLLTERGLPRRREFVM	240		
			
MUS	KPRIKKKSQPTCK--TAPDYGGMNPISRLAQIQQAKKEKEPEYMLLTERGLPRRREFVM			
			RBD3←	→ TBD
HUM	QVKVGNHTAEGTGTNKKVAKRNAAENMLEILGFKVPQRQPTKPALKSEKTPIKKPGDGR	300		
			
MUS	QVKVGHHTAEGVGTNKKVAKRNAAENMLEILGFKVPQAQPAKPAKSEKTPVKKPGDGR			
HUM	KVTFFDPGSGDENGTSNKEDEFMPYLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTR	360		
			
MUS	KVTFFEPSPGDENGTSNKDEEFMPYLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTR			
			TBD←	
HUM	AAPNPAKATVTAMIARELLYGGTSPTAETILKNNISSGHVPHGPLTRPSEQLDYLSRVQG	420		
			
MUS	AAPNPAKATVTAMIARELLYGGTSPTAETILKSNISSGHVPHGPRTRPSEQLYLSRAQG			
			→ RBD4	RBD4←
HUM	FQVEYKDFPKNNKNEFVSLINCSSQPPLISHGIGKDVESCHDMAALNILKLLSELDQQST	480		
			
MUS	FQVEYKDFPKNNKNECVSLINCSSQPPLVSHGIGKDVESCHDMAALNILKLLSELDQQST			
HUM	EMPRTGNGPMSVCGRC*	496		
			
MUS	EMPRTGNGPVSACGTC*			

FIGURE 1D

698 >RBD4 RBD4<
DRO ppxkllmddadnpitkllqqttrkekepeifeliakngnetarrrofmevasagstargtgnskklakrnaaqalfelleavvtptnetqseecctsatmsavtapaveataegk
HUM -----GGINPIRLAQIOAAKEKEPEYTLTERGLP--RRREFVMOVKVGNHTAEGTGTNKKVAKRNAEENMLEILGFKVPQRPQPTKPAKSEKTPIKKPGDGRKVTFFDPCGS
CEL -----ghqinpvvarliqvtqakskehtfelvaehgvs--kykefiliqvkygddvqgkgnkrlakraaeamlesigfvkplpppgtelkkkmdcdpslpeishwtgppptav
C PI V E K P F V GP H K F F V VG G G SKK AK AA AL L
L R Y L R M

818
DRO vpmvatpvgmpgillirnmktpakkrdqivivksnveskeeeankevavaaeennsnanagdsesgdsqateaaesalntetgtsvsnsvngantdgnnhaesknnntes
HUM GDENGTSNKGEFRMP-----YLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTRAAPNP-AKATVTAMIARELLYGGTSP--TAETILKNN-----ISSGHVPHGLPTRPS---
CEL svstaeptseaaqlspeqtdisekrelepdtekrvrtfnsgvhacpppgdqdpynsivqelktdalvegkirkirrekenrraltaeqivaleeraqylyqtktnttiqesqsesah---
C

938 >RBD5 RBD5<
DRO senstantqsagvhmkeqllylaklldfevnfsdybpgnhnneflitvltsethppqichgvvksesqndaaenalkileklglnnamk*
HUM -----EQLDYLRSRVQGVQVEYTKDFPNKNNKNEFVSLINCSQPPLISHGIGKOVESCHDMAALNLIKLLSELDOQOSTEMPPRTGNGPMVMVCGRC*
CEL -----hhleqlsdffkfelqytsfpqvgidqhtfivsigleapivghgtgctteadenaaaldalakkelseakt*
C G G SKK AK AA AL L

B)

230
STAUFEN GFKVTPORQPTKPAKSEKTPIKKPGDGRKVTFFDPCSGDENGTSNKKEDEFRLPYLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTRAAPNPAPAKATVTA
MAP1B KEKTKTKGPGTKTKSSSPVKSGDGSKSPLAASPKPAGLKESSDKVSRVSPKQKEEVEKAAPTTTTPEVKAARGEKDKKE TKQNAANASASAKSATA
2247 2337

FIGURE 1' (cont'd)

A)

1

DRO mqhnhvaarpaphiraahhshahmhllhpomeqhlgsalqqqqpppppppppphrdharlnhhhlhaqqqqqqqqtsenqaaavaaahghgninengenienennqmqkirkqh
CEL qhlaseenglignppppppqafnplagnpaalaynqlpphphmaahlgsyaappphyymsaqakpakynhygsnansengenennenyapkaillqntyrenqkvvvppvvqvtpvpopp
mqavfet

121

241

>RBD1

DRO vttnattstnstenstviasepvtqedsqkpetrqepasaddhvstgnidatgalenedtesgrgkdktpmclvnelarynki chqyzi teergpahckftvtlmlgd-eeysadgf
CEL tltqmdgvmivqettdladlienaseaekseqkperlhpqhwoqhkfseadptnfdytnakekekesamrvaeiafnktrhvynlqdesgpahkkllftvklvltseetfegsgt

RBD1<

360

DRO kikkaqhaaekaieetmykpppkirrseegparthitptvelnalamlqtrfylldptqipptdsivppefagghlltappgmpqppppayalrqrlngfvpipsgpnhph
HUM MCGKGMKXKVDVPSRQSTNYN

479

>RBD2

RBD2<

>RBD3

DRO ffnpgpqrppkfparfalppplgahvhgpnqfpevtppskitlfvgkqfvgigtllqqakhdaaalqvlk---tqalaseeale-damdegdkkapiqsvheigikrnmv
HUM MRGCAYPFRYFYPPF-VPLLYQVELSVGCGQFNKGKTRQAAKHDAALRILO---NEPLPERLEVNGRESEENLNKSEISQVTE LALKRNLFP
CEL lyappftlpidparpqgkqlqaviwningsiatigetyplakdaaalavleplllrehngsdngfkenipvhkqkvisadihekaayqlkvv
CONGASUS
G G SKK AK AA AL L
PI V E K
L R

595

RBD3<

DRO hfkvlreegpahmknfita---civgsiv---tegegngkvskkkrasakmlvelqkplptktqtplkrlkv---ktpqksaaaregavvsgtdgtmqtkperrkrln
HUM NTEVARESGPPHQNFTK---VSVGEFV---GECEGSKKISKONAAIAVLELKLPL-PAVERVKPRNK---KTQIVKQOT-SPEY---
CEL vfevlkeegpphdrqvvrcafvtegnvvkaevqtkkkaeqaeactqllatvehltpennpvalatnvcktkklaamnrpkrtktivdkkmdply---
C F V GP H K F F V VG G G SKK AK AA AL L
Y L R M

FIGURE 1'

c)

FIGURE 1' (cont'd)

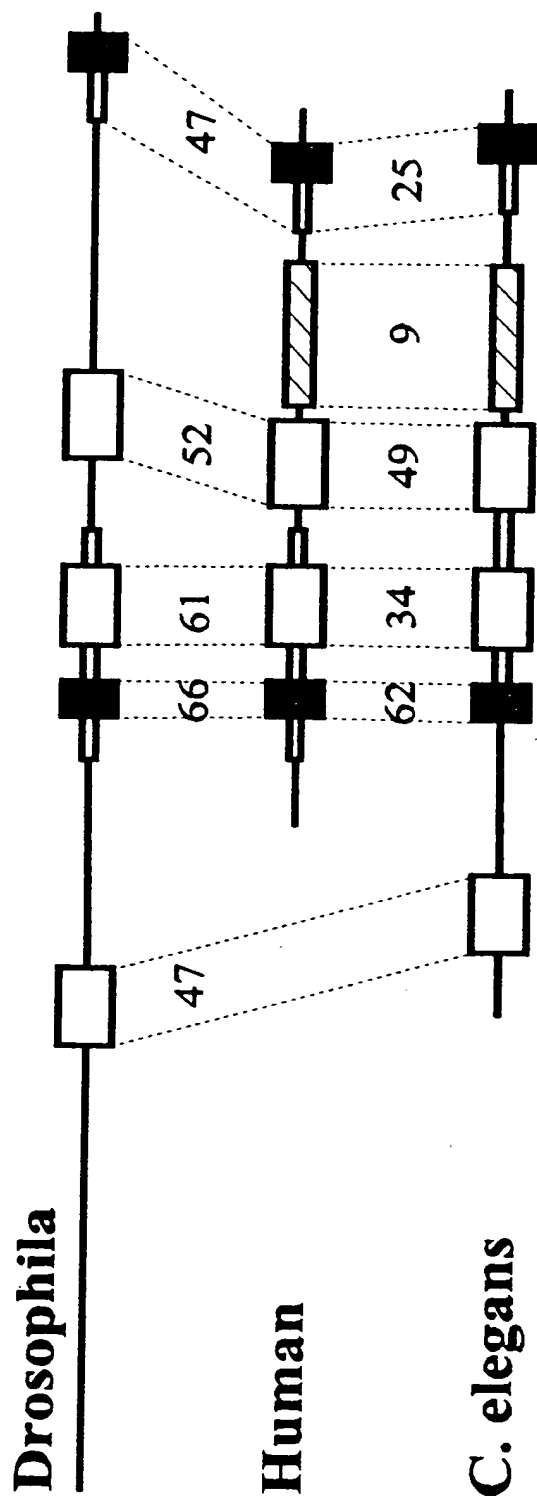
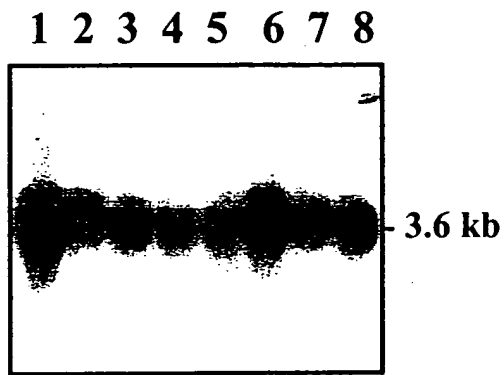
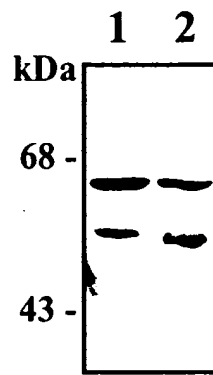


FIGURE 2

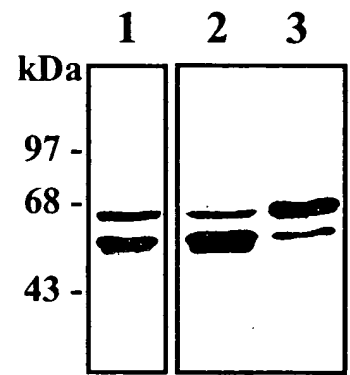
A



B



C



D

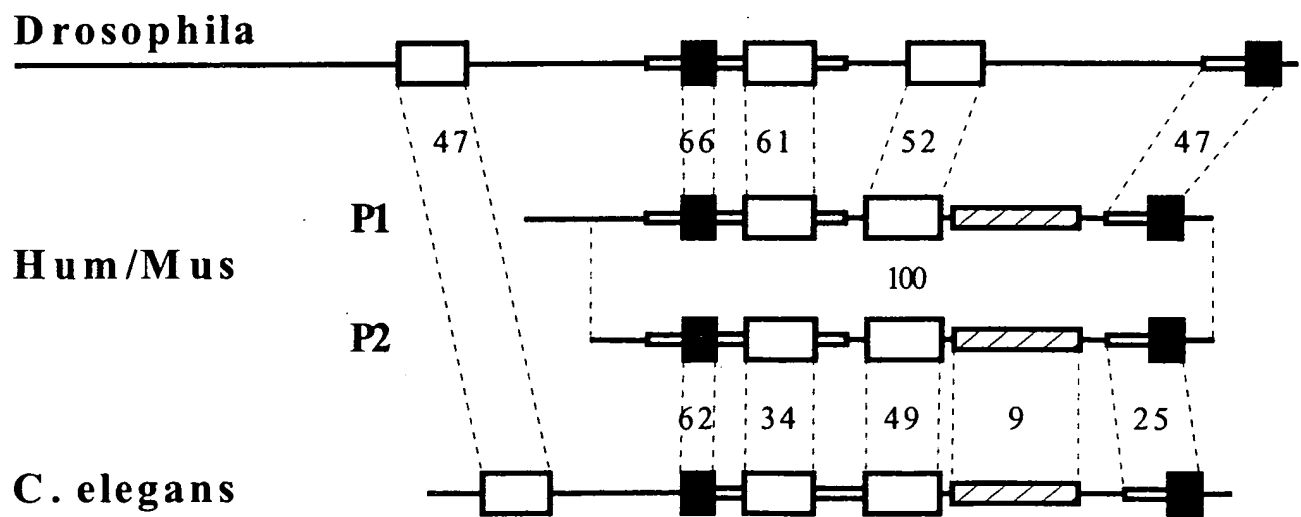
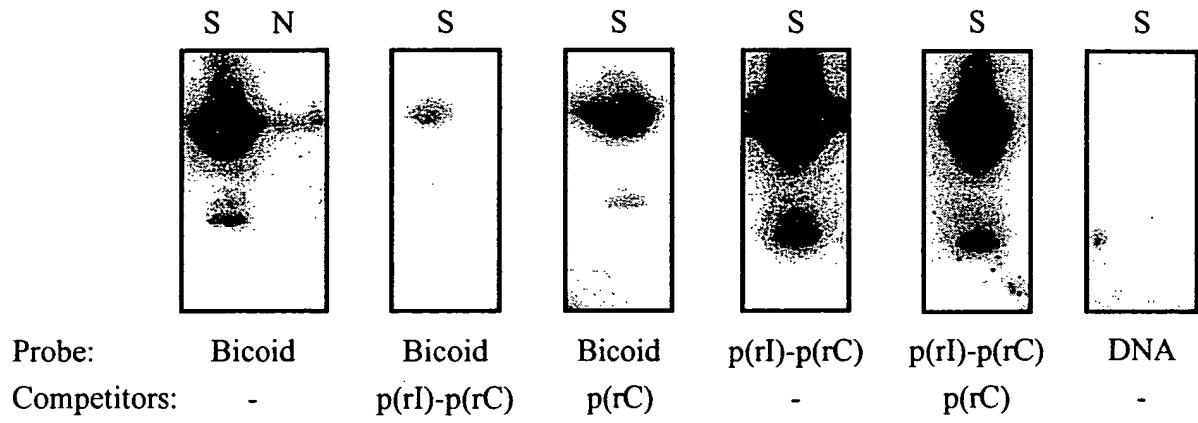


FIGURE 3

A



B

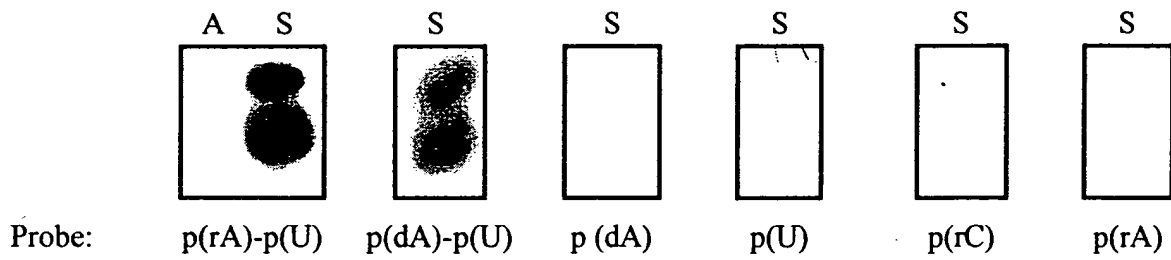


FIGURE 4

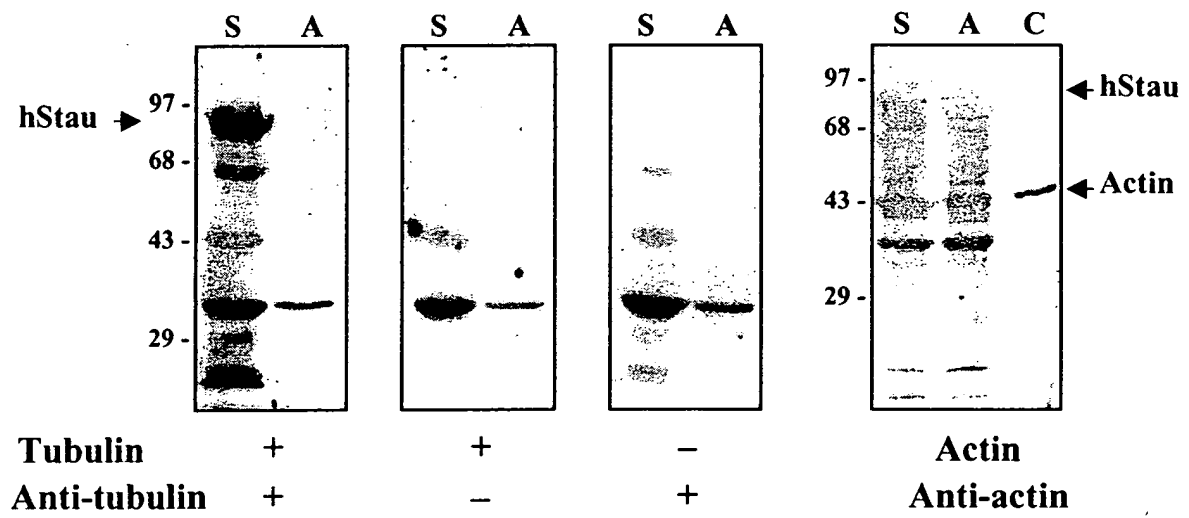
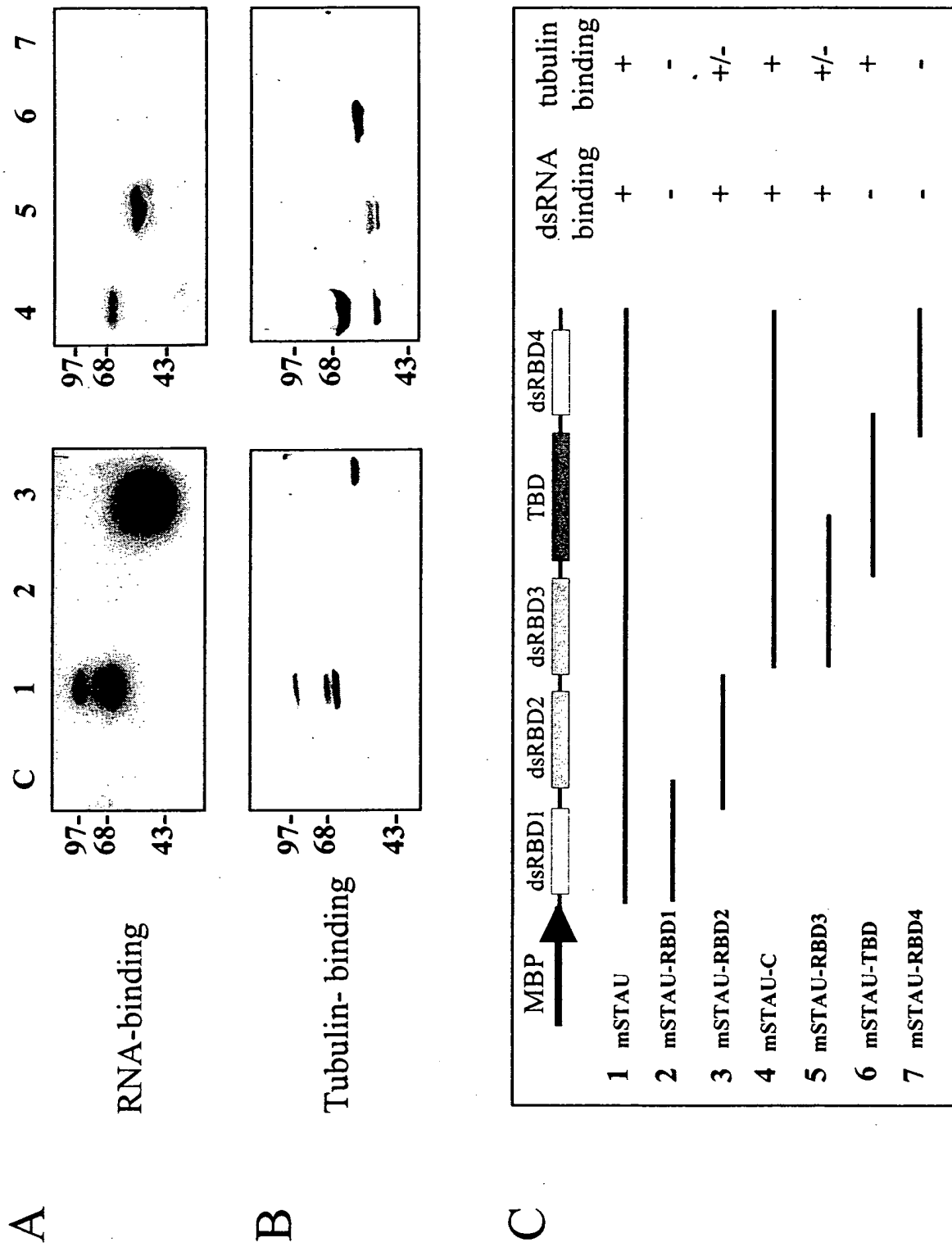


FIGURE 5



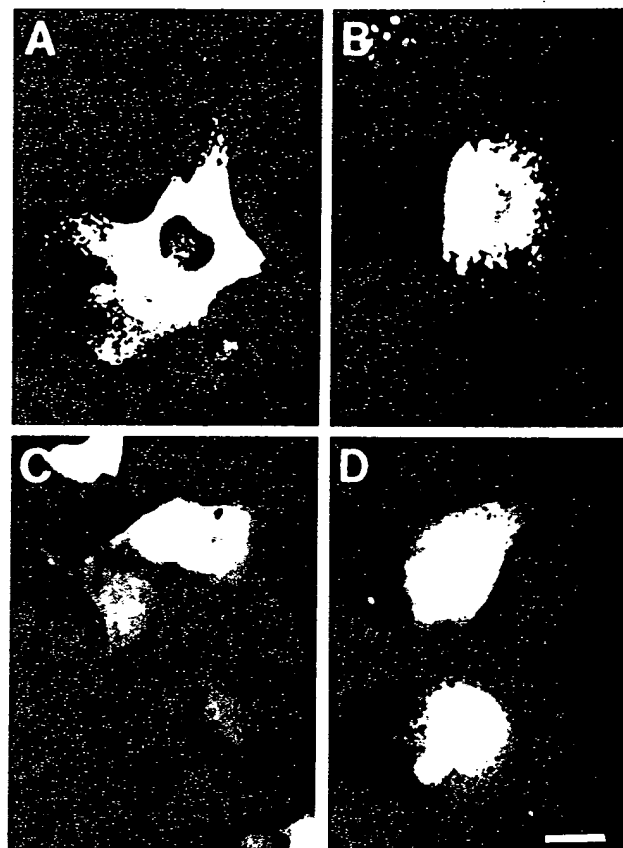


FIGURE 6

FIGURE 7

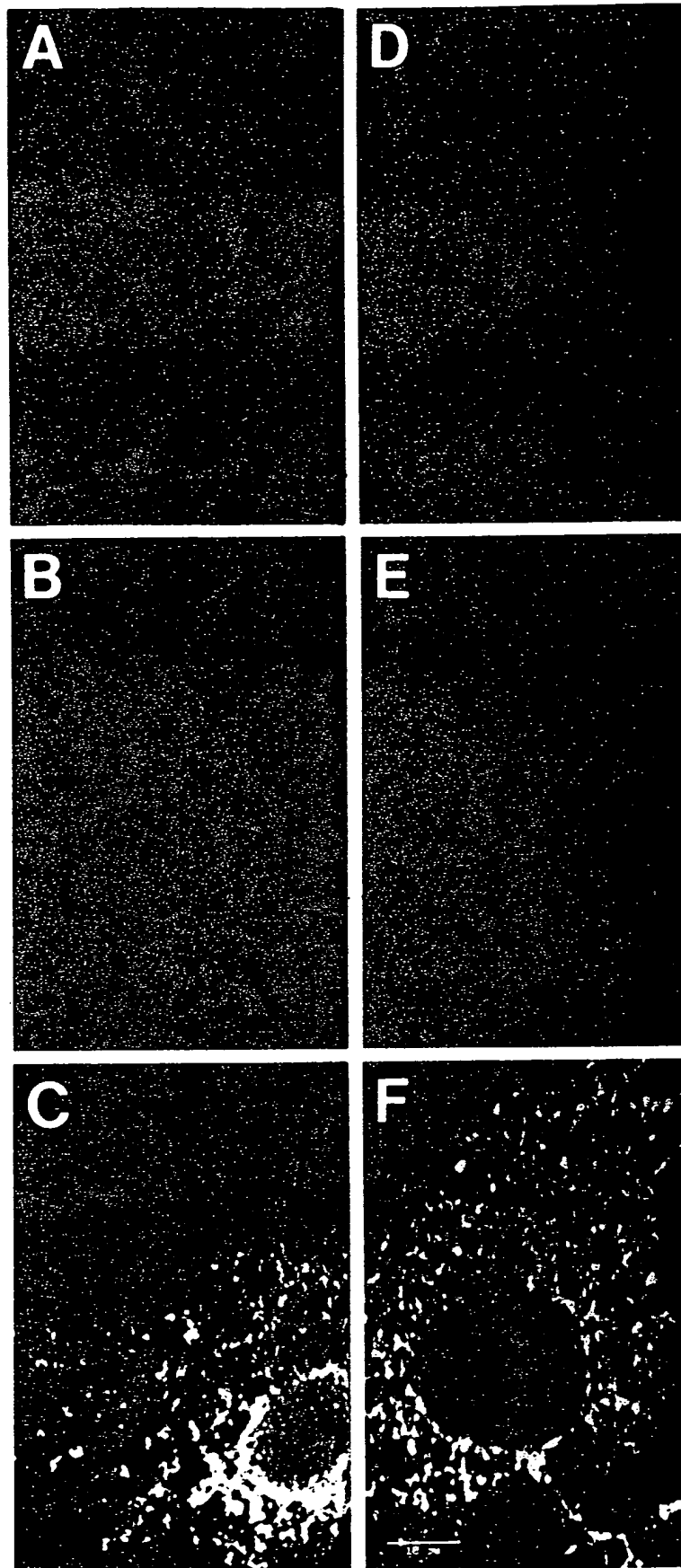
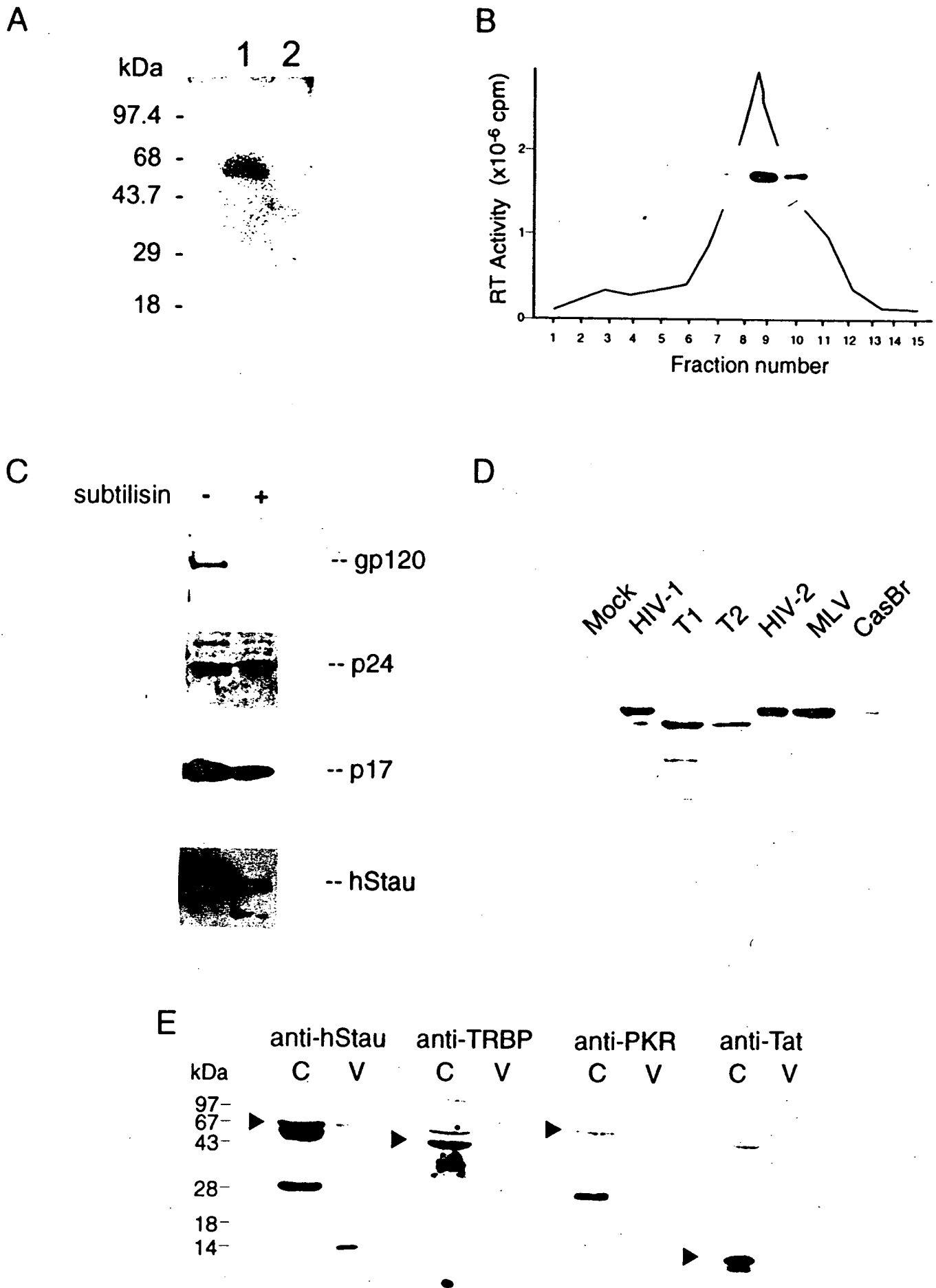


FIGURE 8



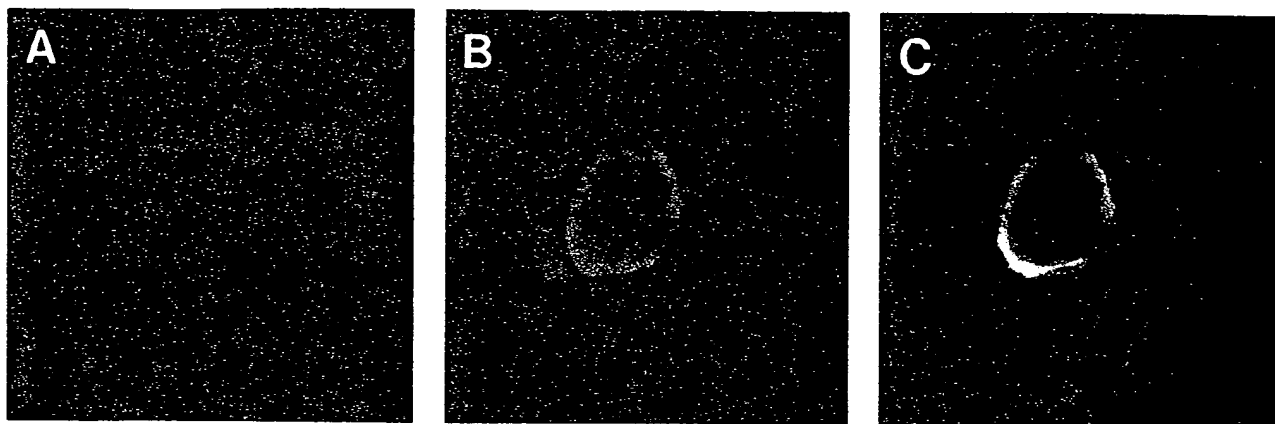


FIGURE 9

FIGURE 10

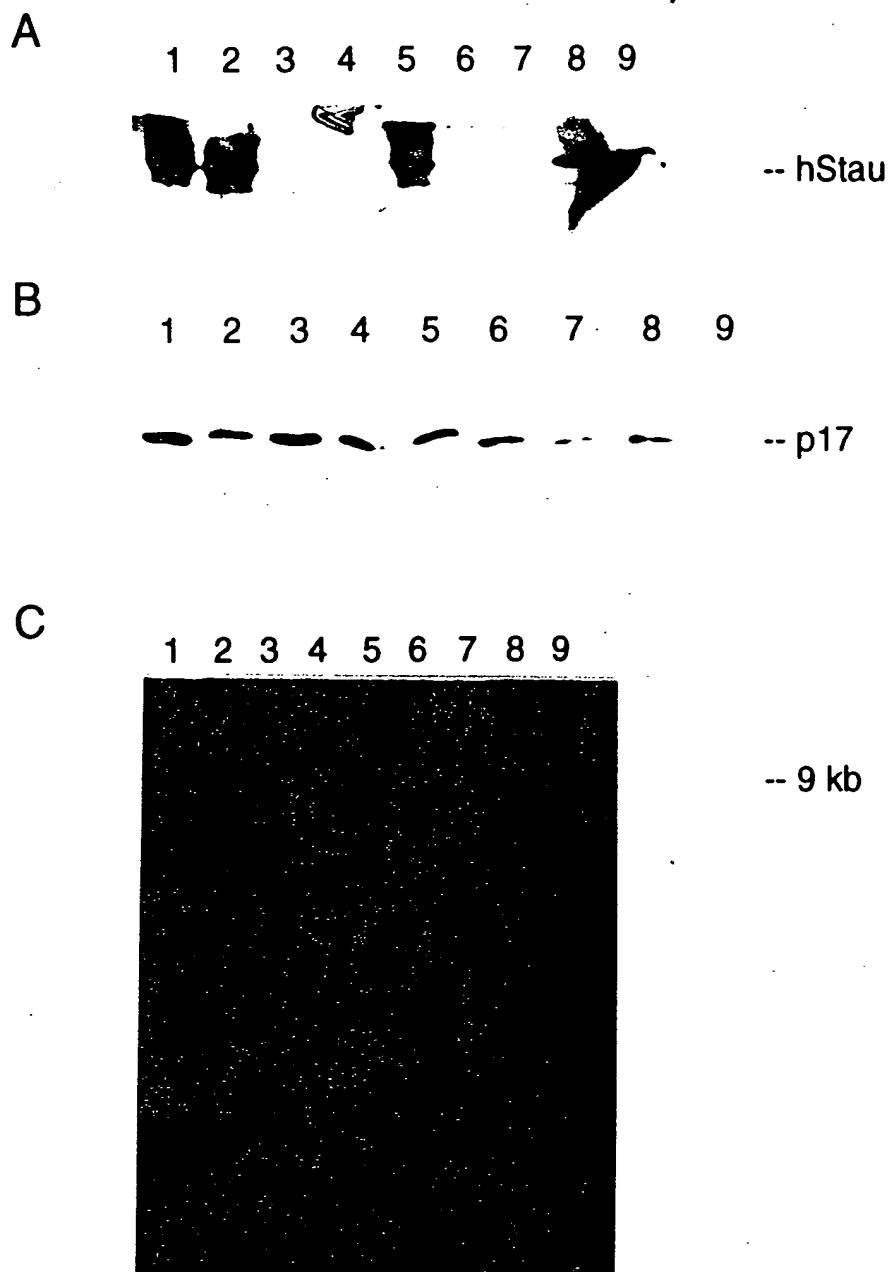


FIGURE 11

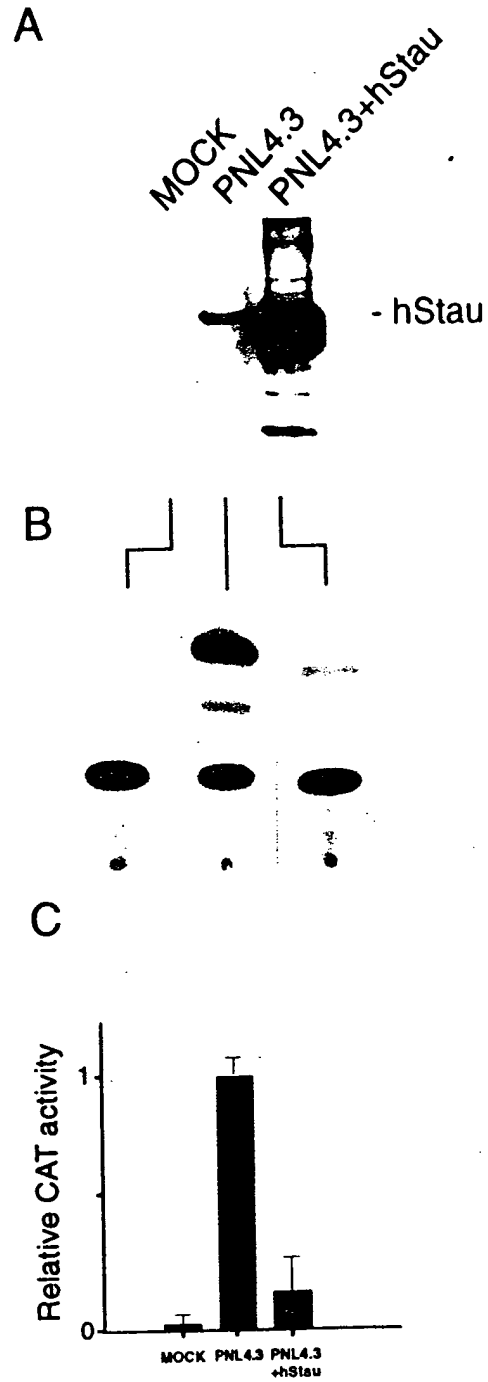


Figure 12

Primer combinations used in PCR amplifications for Gag constructs based on

HIV-1 HxB2 pr55^{Gag}

Gag mutants	Sense primer (5' → 3')	Antisense primer (5' → 3')
Pr55^{Gag}/Rluc	ACAGGTACCATGGGTGCGAGAGCGTCAG	ACAGGATCCCTTGTGACGAGGGGTCGTT
MA-CA/Rluc	ACAGGTACCATGGGTGCGAGAGCGTCAG	ACAGGATCCCCAAAACCTTGCCTTATG
CA/Rluc	ACAGGTACCATGCCTATAGTGCAGAACAT	ACAGGATCCCCAAAACCTTGCCTTATG
CA-p1/Rluc	ACAGGTACCATGCCTATAGTGCAGAACAT	ACAGGATCCCCAAAATTCCTGGCCTTCC
CA-p6/Rluc	ACAGGTACCATGCCTATAGTGCAGAACAT	ACAGGATCCCTTGTGACGAGGGGTCGTT
MA/Rluc	ACAGGTACCATGGGTGCGAGAGCGTCAG	ACAGGATCCCGTAATTTGGCTGACCTG
p2-p1/Rluc	ACAGGTACCATGGCTGAAGCAATGAGCC	ACAGGATCCCCAAAATTCCTGGCCTTCC
NC/Rluc	ACAGGTACCATGCAGAGAGGCAATTTTA	ACAGGATCCCATTAGCCTGTCTCTCAGT
p6/Rluc	ACAGGTACCATGCTTCAGAGCAGACCAG	ACAGGATCCCTTGTGACGAGGGGTCGTT

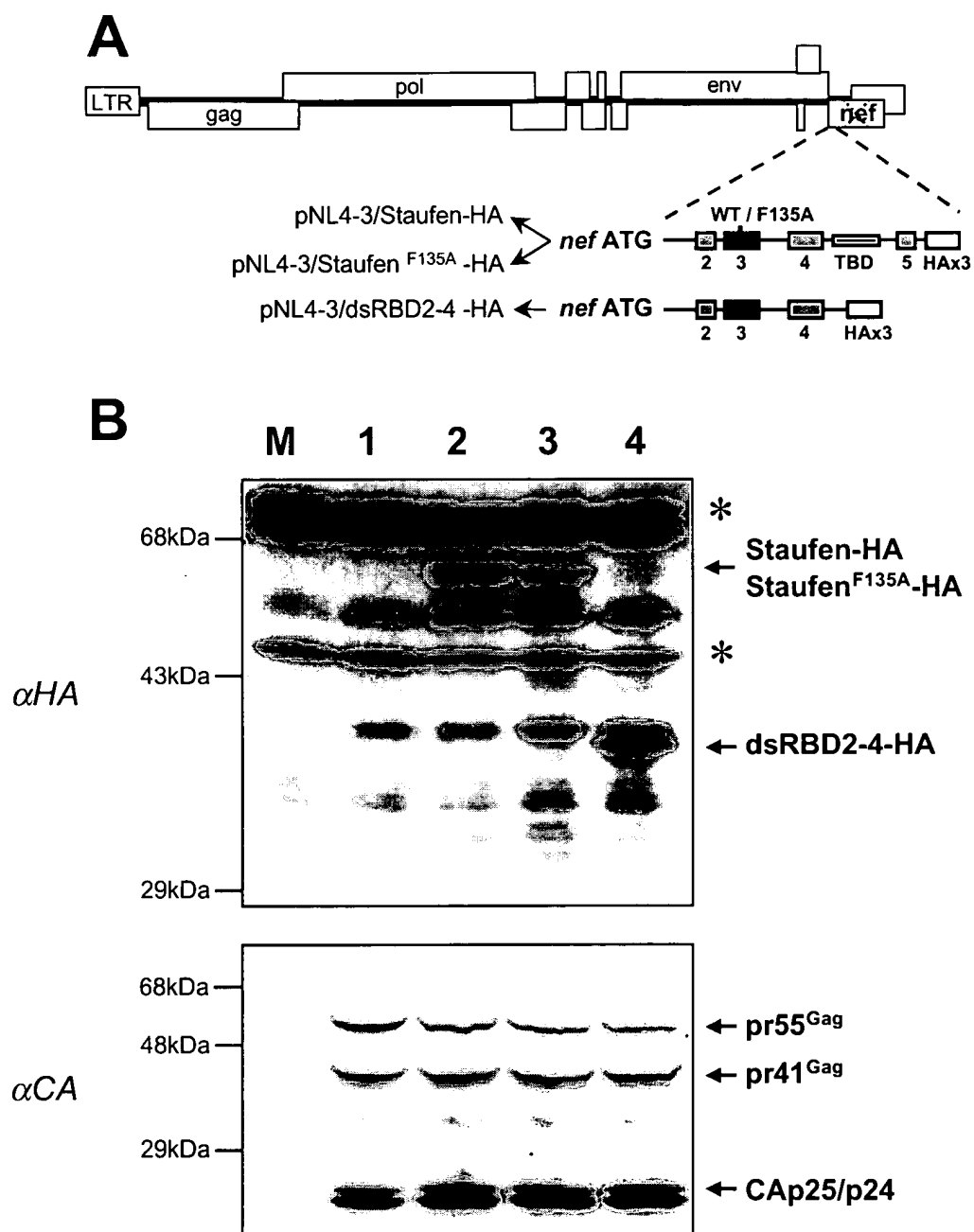


Figure 13

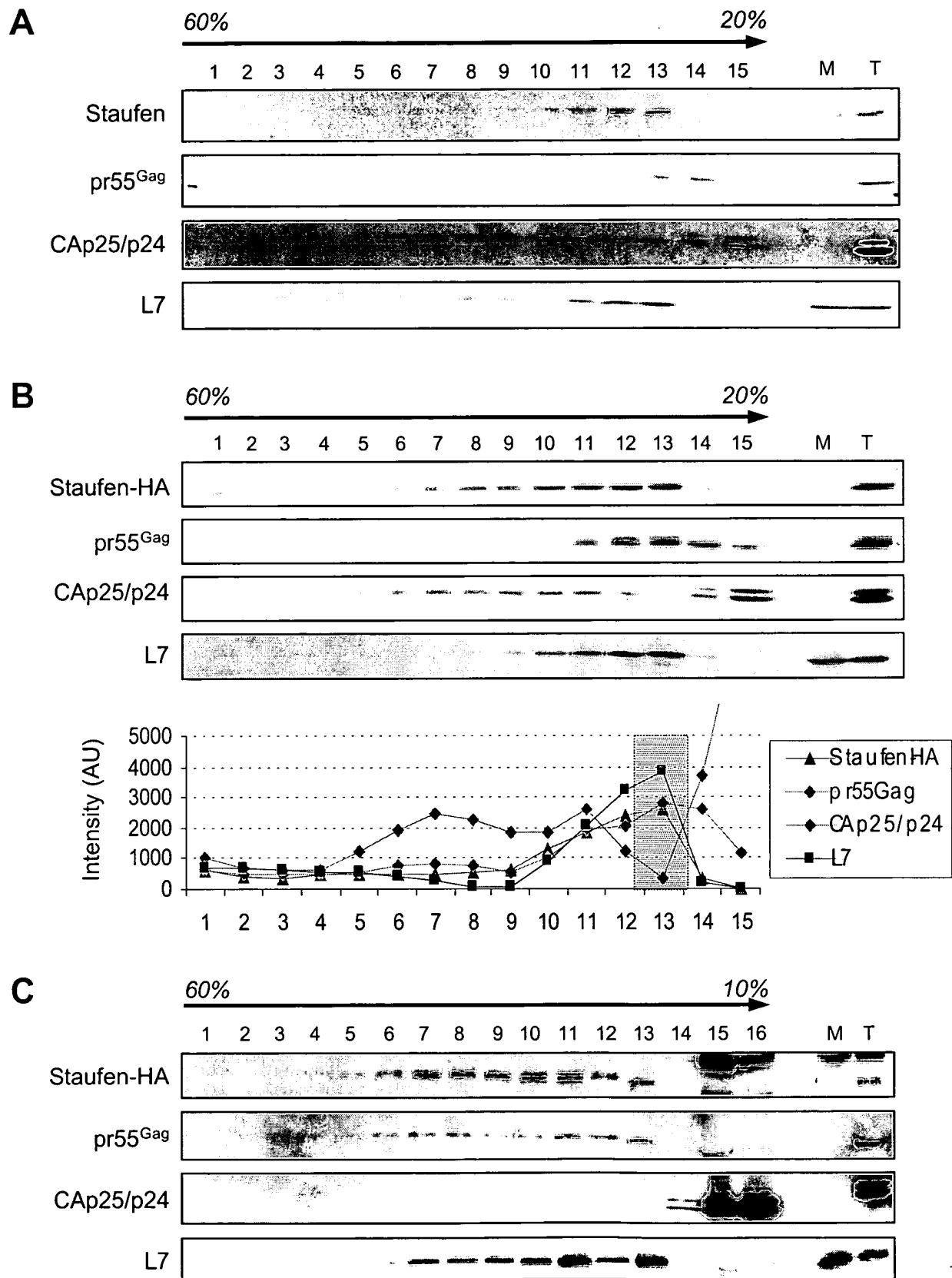


Figure 14

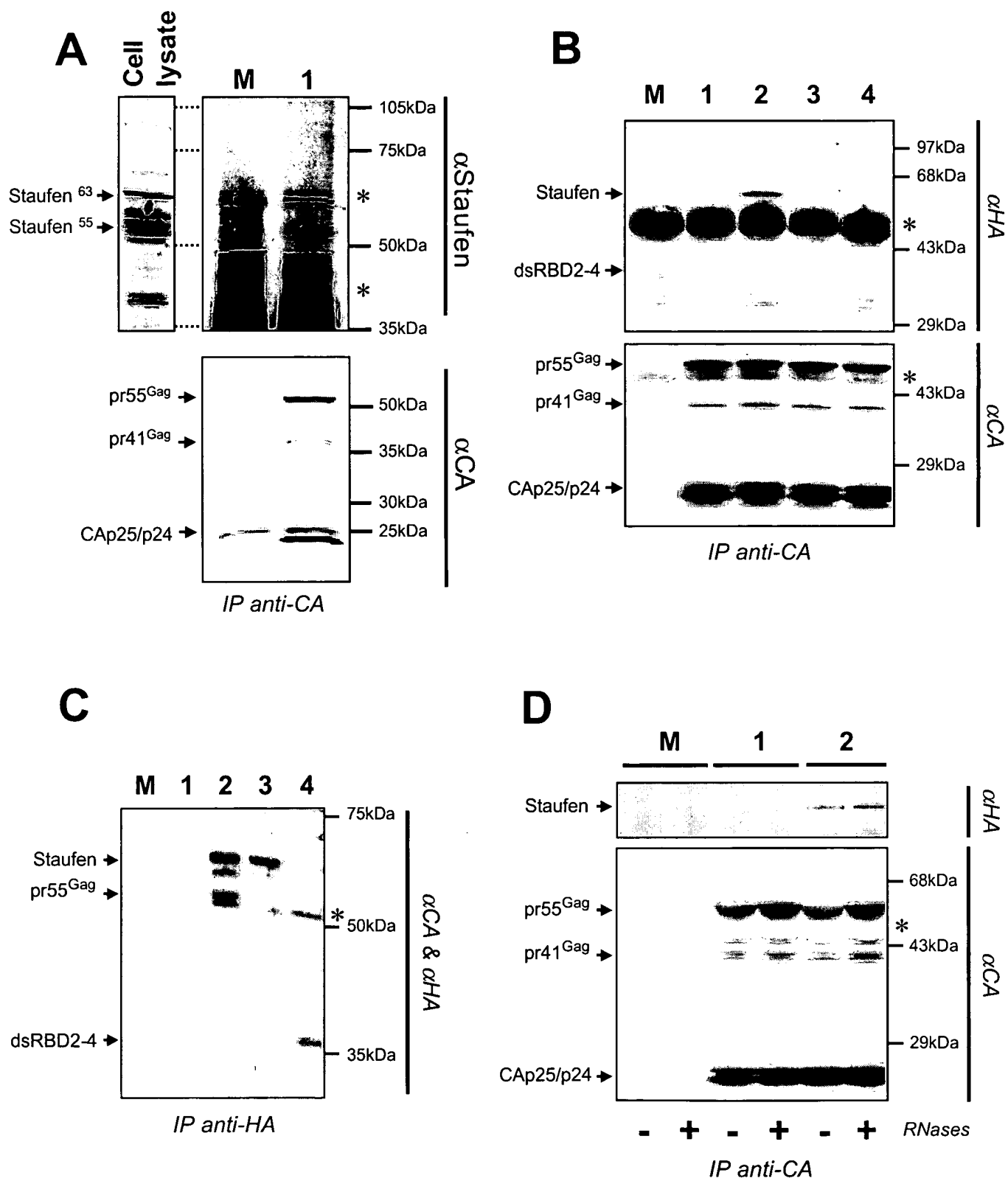


Figure 15

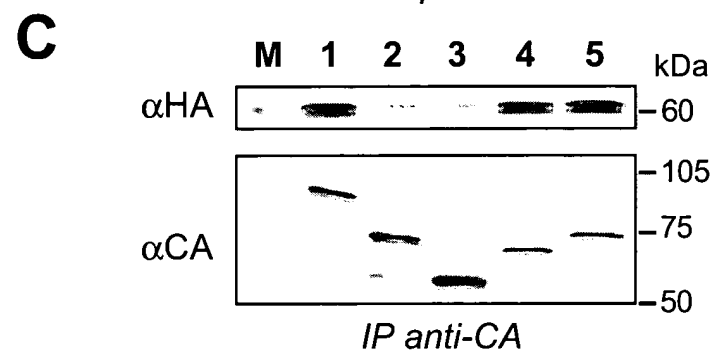
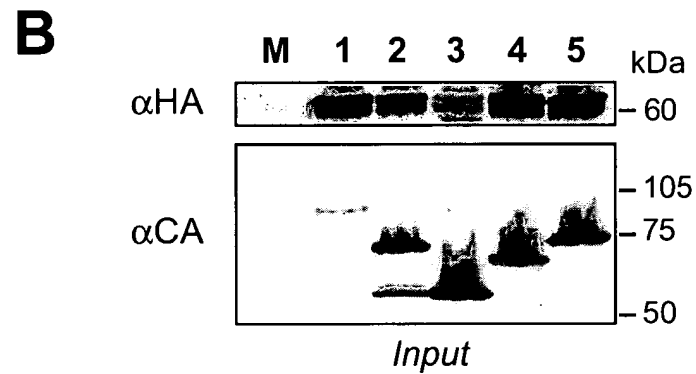
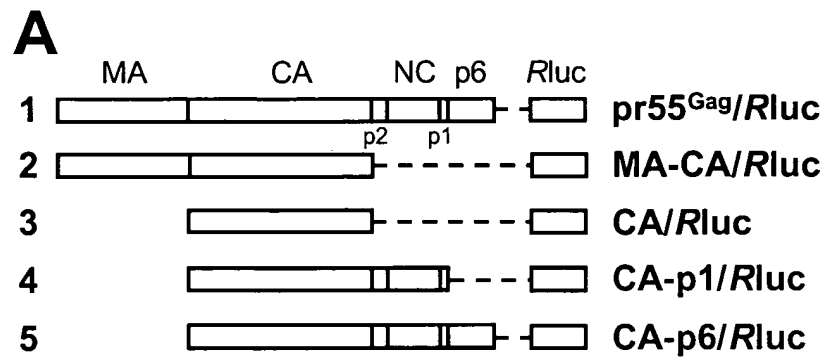


Figure 16

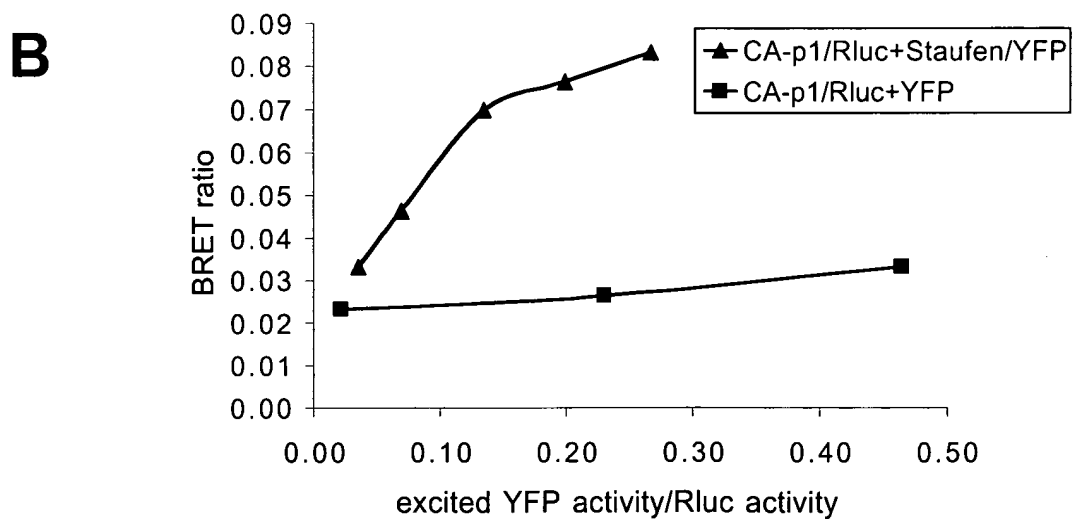
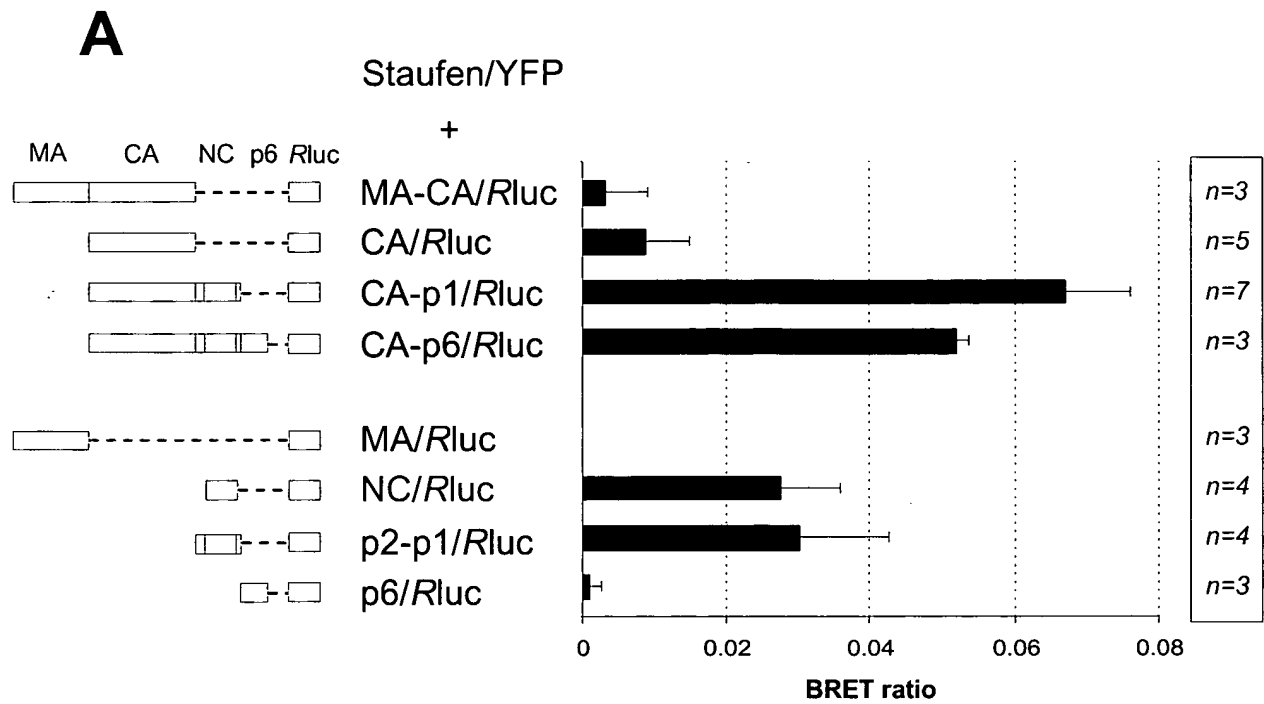


Figure 17

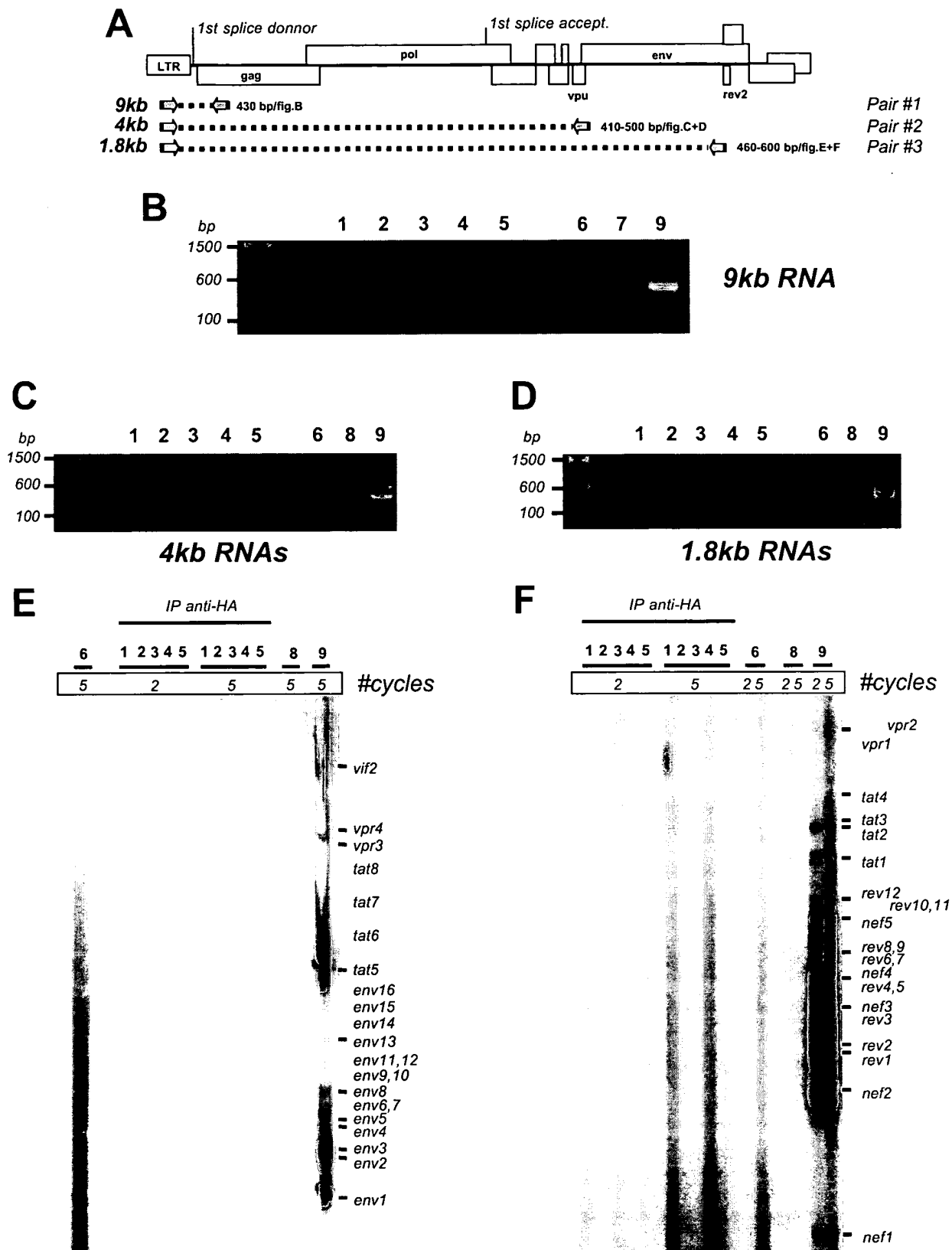


Figure 18

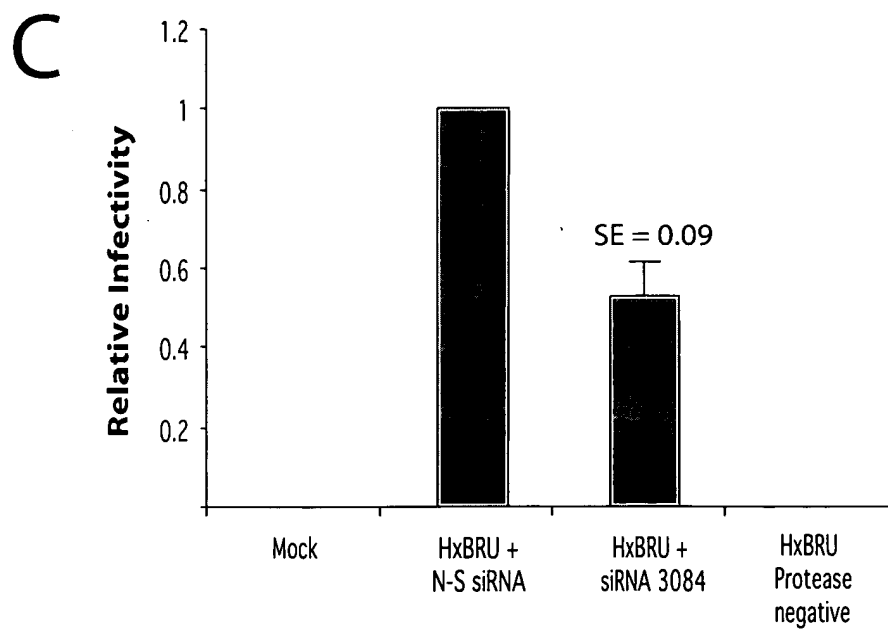
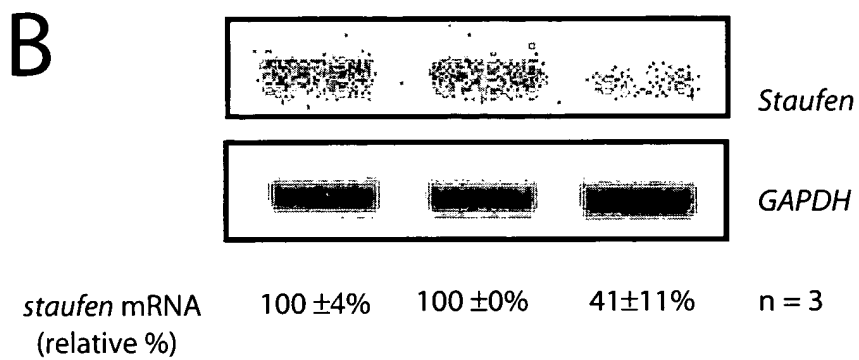
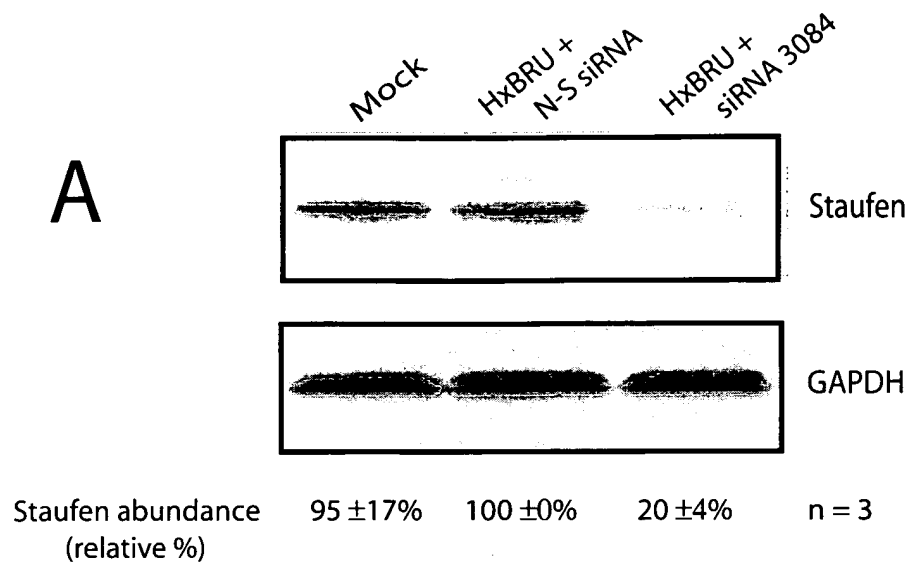


Figure 19

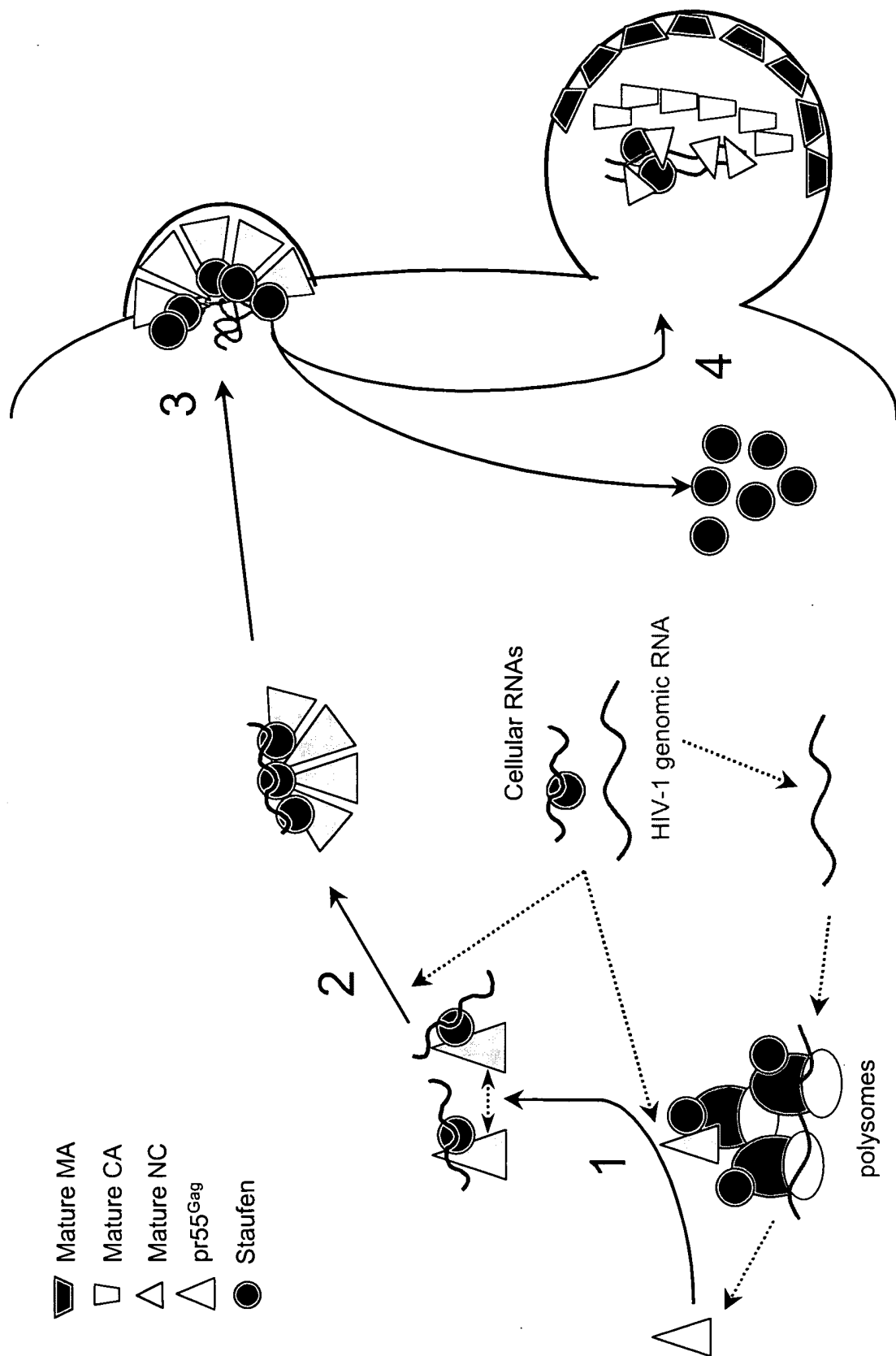


Figure 20

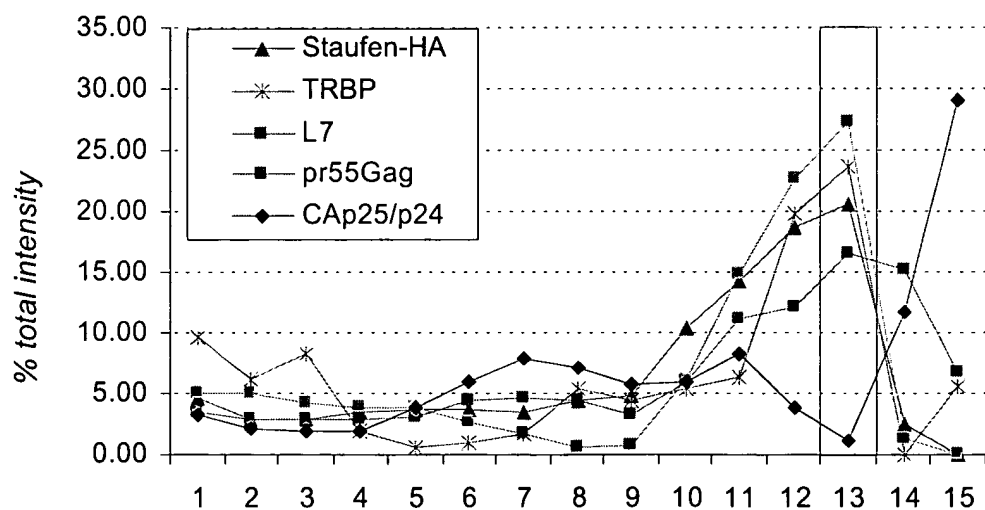
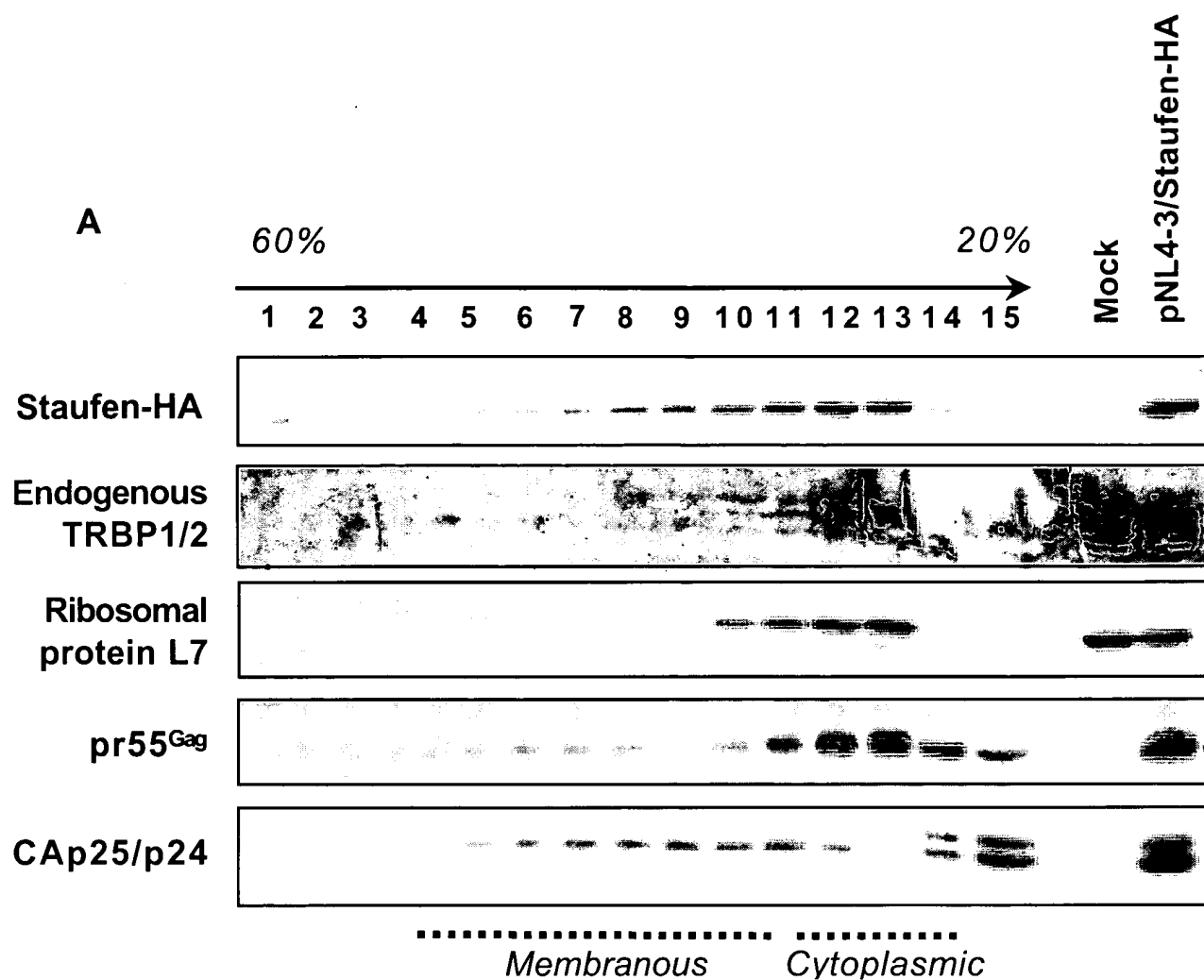


Figure 21A

B

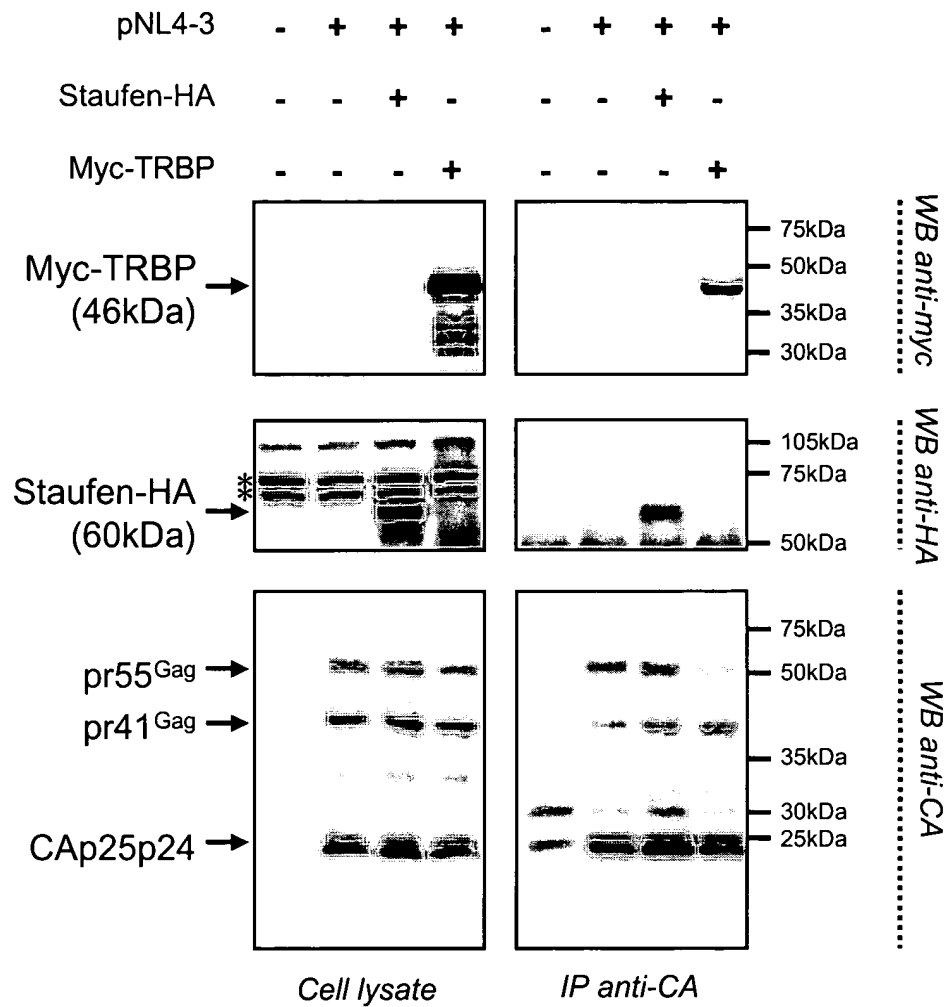


Figure 21B

Staufen is found in UHC-1 Promonocytic Cells

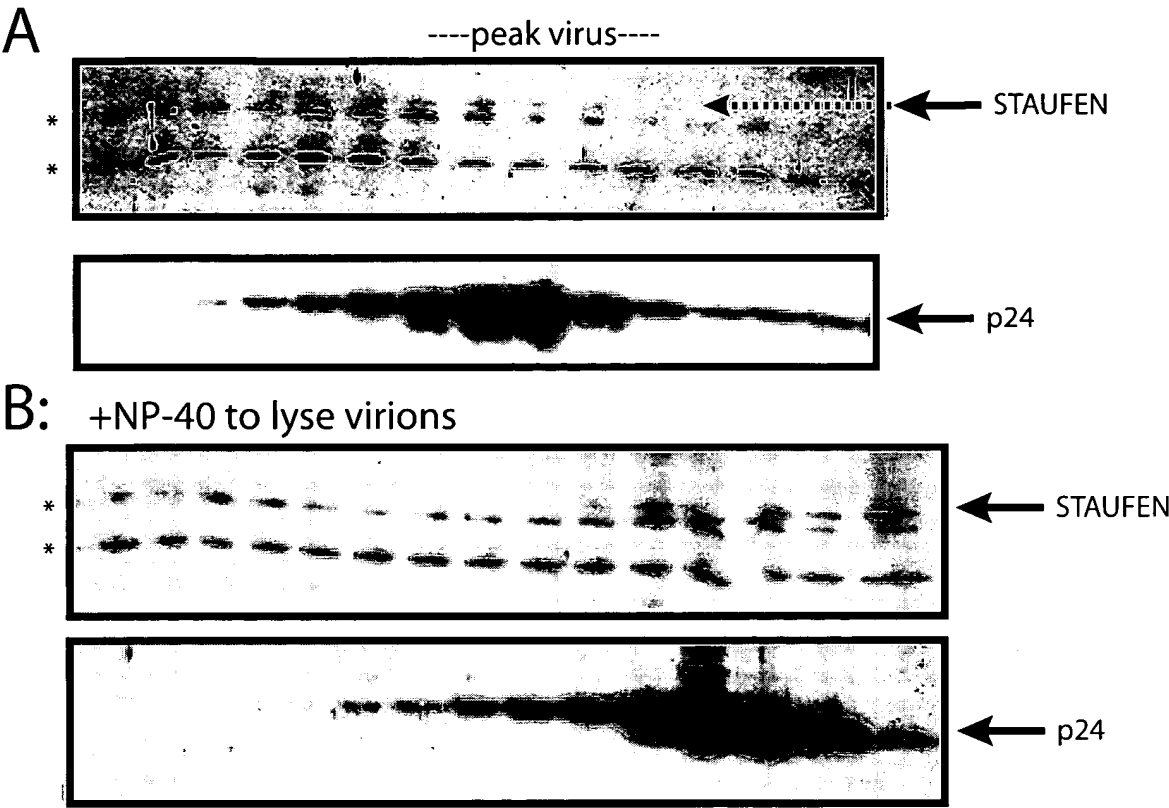


Figure 22

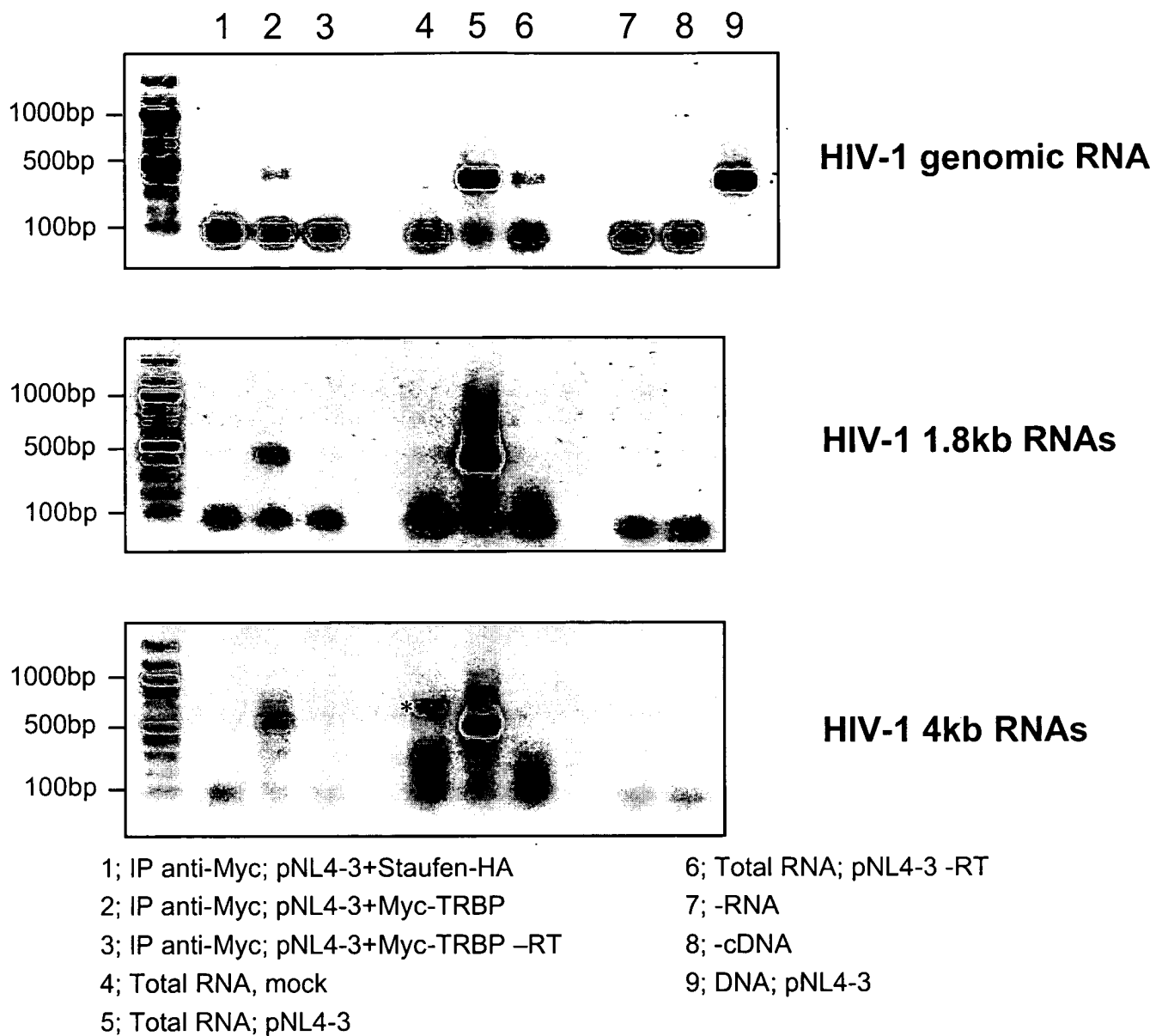


Figure 23